

CLAIMS:

1. A display device for displaying images by the use of light emission of phosphors, comprising:

input terminal with inputs an image signal;
detector which detects whether or not a static image is contained in specific regions of an image in the image signal inputted by said input terminal; and

image processor which changes a luminance level of the image in said specific region when the static image is detected by said detector.

2. The display device according to claim 1,
wherein said detector detects a luminance level of the inputted image signal, and detects the static image with a luminance level higher than a predetermined first luminance level or lower than a predetermined second luminance level.

3. The display device according to claim 2,
wherein said detector detects a luminance level of the inputted image signal, and when the luminance level of the detected static image in said specific region is higher than said first luminance level, said image processor lowers the luminance level in the specific region.

4. The display device according to claim 2,
wherein said detector detects a luminance level of the inputted image signal, and when the luminance level of the detected static image in said

specific region is lower than said second luminance level, said image processor increases the luminance level in the specific region.

5. The display device according to claim 1, wherein said image processor means changes the luminance level of the image in said specific region when a static image which remains unchanged for a time longer than a predetermined time is inputted.

6. The display device according to claim 1, further comprising: a storage which stores data to be used for the change of the luminance level by said image processor.

7. The display device according to claim 1, wherein said specific region is one of the regions around four corners of a displayed image.

8. The display device according to claim 1, wherein said image processor changes the luminance level of the image also in a specific region other than the specific region in which the static image is detected by said detector.

9. The display device according to claim 1, wherein, when changing the luminance level of the specific region, the luminance level of a part close to the edge of the display screen in said specific region is more largely changed than that of a part close to the center of the display screen in said specific region.

10. The display device according to claim 1,

wherein said image processor gradually increases said amount of change in luminance level in accordance with the passage of time.

11. A display device for displaying images by the use of light emission of phosphors, comprising:

input terminal which inputs an image signal;

detector which detects whether or not a static image is contained in specific regions of an image in the image signal inputted by said input terminal; and

image processor which changes a luminance level of the image signal so that the luminance level in the part close to the outer edge of the display screen is more largely changed than the part around the center of the display screen across the entire display screen when the static image is detected by said detector.

12. The display device according to claim 11,

wherein said detector detects a luminance level of the inputted image signal, and detects the static image with a luminance level higher than a predetermined first luminance level or lower than a predetermined second luminance level.

13. A method of displaying images in a display screen, comprising:

the step of inputting an image signal containing a static image in a specific region of the image;

an image processing step for changing a luminance level in the specific region when said image signal is inputted; and

a display step for displaying an image with a changed luminance level in said specific region.

14. The display device according to claim 1,
wherein said display device is either of the PDP and the FED.

15. The display device according to claim 2,
wherein said display device is either of the PDP and the FED.

16. The display device according to claim 3,
wherein said display device is either of the PDP and the FED.

17. The display device according to claim 4,
wherein said display device is either of the PDP and the FED.

18. The display device according to claim 5,
wherein said display device is either of the PDP and the FED.

19. The display device according to claim 6,
wherein said display device is either of the PDP and the FED.

20. The display device according to claim 7,
wherein said display device is either of the PDP and the FED.